

Appendix A

(Pages A1-A12)

jc918 U.S. PTO

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1. Rock On

Purpose: (Skills listed subject to revision) Auditory attention, Discrimination, Short-term memory, Sequential memory, Pattern recognition, Temporal ordering, Temporal integration; Phonological Segmentation and Sequencing; Sight Word Recognition

Functionality: This task teaches and develops the above listed skills through the following tasks:

Description of Task 1:

- Present a sentence
- Prompt user to identify the number of words in the sentence
- User indicates response with input device
- Analyze response (correct or incorrect?) and performance (re: performance criterion)
- Provide feedback to user
- If advance level performance criterion met, advance level re: number of syllables in words, phonological similarity of words (rhyming vs. non-rhyming) sounds, availability of auditory feedback; printed display of word
- If decrease level performance criterion met, decrease level re: number of syllables in words, phonological similarity of words (rhyming vs. non-rhyming) sounds, availability of auditory feedback; printed display of word
- Else, continue at current level of play

Similarity to other CCI patent claims:

Description of Task 2:

- Present a word
- Prompt user to identify the number of syllables in the word
- User indicates response with input device
- Analyze response (correct or incorrect?) and performance (re: performance criterion)
- Provide feedback to user
- If advance level performance criterion met, advance level re: availability of auditory feedback; printed display of syllables
- If decrease level performance criterion met, decrease level re: availability of auditory feedback; printed display of syllables
- Else, continue at current level of play

Similarity to other CCI patent claims:

Description of Tasks 3&4:

- Present two words
- Prompt user to identify whether the words have same or different syllable stress
- User indicates response with input device
- Analyze response (correct or incorrect?) and performance (re: performance criterion)
- Provide feedback to user
- If advance level performance criterion met, advance level re: number of syllables in words, availability of visual cue to facilitate performance
- If decrease level performance criterion met, decrease level re: number of syllables in words, availability of visual cue to facilitate performance
- Else, continue at current level of play

Description of Task 5:

- Present a word
- Prompt user to identify the syllabic stress pattern of the word
- User indicates response with input device
- Analyze response (correct or incorrect?) and performance (re: performance criterion)
- Provide feedback to user
- If advance level performance criterion met, advance level re: number of syllables in words, availability of auditory feedback; availability of visual cues to facilitate performance
- If decrease level performance criterion met, decrease level re: number of syllables in words, availability of auditory feedback; availability of visual cues to facilitate performance
- Else, continue at current level of play

2. Slurp & Burp

Purpose: (Skills listed subject to revision) Blending onset-rime; Recognizing word endings; Segmenting phonemes; Deleting phonemes; Word identification, Decoding and Spelling.

Functionality: This task teaches and develops the above listed skills through the following tasks:

Description of Task 1:

- Present an onset and rime, separated by an inter-stimulus interval
- Prompt user to identify the word created by blending the onset & rime units
- User indicates response with input device
- Analyze response (correct or incorrect?) and performance (re: performance criterion)
- Provide feedback to user
- If advance level performance criterion met, advance level re: interval of time between onset & rime, perceptual similarity of response choices, presentation format (auditory alone, auditory + visual, visual alone)
- If decrease level performance criterion met, decrease level re: interval of time between onset & rime, perceptual similarity of response choices, presentation format (auditory alone, auditory + visual, visual alone)
- Else, continue at current level of play

Similarity to other CCI patent claims:

Description of Task 2: same as Task 1 but onset-rimes form nonsense words instead of real words

Similarity to other CCI patent claims:

Description of Task 3:

- Present a word
- Prompt user to identify the rime unit of the word
- User indicates response with input device
- Analyze response (correct or incorrect?) and performance (re: performance criterion)
- Provide feedback to user
- If advance level performance criterion met, advance level re: perceptual similarity of response choices, presentation format (auditory alone, auditory + visual, visual alone)
- If decrease level performance criterion met, decrease level re: presentation format (auditory alone, auditory + visual, visual alone)
- Else, continue at current level of play

Similarity to other CCI patent claims:

Description of Task 4:

- Present individual phonemes, separated by an inter-stimulus interval
- Prompt user to identify the word created by blending the phonemes
- User indicates response with input device
- Analyze response (correct or incorrect?) and performance (re: performance criterion)
- Provide feedback to user
- If advance level performance criterion met, advance level re: interval of time between onset & rime, perceptual similarity of response choices, presentation format (auditory alone, auditory + visual, visual alone)
- If decrease level performance criterion met, decrease level re: interval of time between onset & rime, perceptual similarity of response choices, presentation format (auditory alone, auditory + visual, visual alone)
- Else, continue at current level of play

Similarity to other CCI patent claims:

Description of Task 5: same as Task 4 but phonemes form nonsense words instead of real words

Similarity to other CCI patent claims:

Description of Task 6:

- Present word
- Prompt user to identify the number of phonemes in the word
- User indicates response with input device
- Analyze response (correct or incorrect?) and performance (re: performance criterion)
- Provide feedback to user
- If advance level performance criterion met, advance level re: word type (real vs. nonsense), availability of auditory feedback, visual display of graphemes
- If decrease level performance criterion met, decrease level re: word type (real vs. nonsense), availability of auditory feedback, visual display of graphemes
- Else, continue at current level of play

Similarity to other CCI patent claims:

Description of Task 7:

- Present word
- Prompt user to spell word
- User indicates response with input device
- Analyze response (correct or incorrect?) and performance (re: performance criterion)
- Provide feedback to user
- If advance level performance criterion met, advance level re: availability of auditory cues, availability of auditory feedback
- If decrease level performance criterion met, decrease level re: availability of auditory cues, availability of auditory feedback
- Else, continue at current level of play

Similarity to other CCI patent claims:

Description of Task 8:

- Present a series of phonemes (CVCC), separated by an inter-stimulus interval
- Prompt user to identify the word created by blending the phoneme units
- User indicates response with input device
- Analyze response (correct or incorrect?) and performance (re: performance criterion)
- Provide feedback to user
- If advance level performance criterion met, advance level re: interval of time between phonemes, perceptual saliency of phonemes, presentation format (auditory alone, auditory + visual, visual alone)
- If decrease level performance criterion met, decrease level re: : interval of time between phonemes, perceptual saliency of phonemes, presentation format (auditory alone, auditory + visual, visual alone)
- Else, continue at current level of play

Similarity to other CCI patent claims

Description of Task 9: same as Task 8 but using CCVC words instead of CVCC words (different syllable structure and location of CC blend in word)

Description of Task 10:

- Present sound unit
- Prompt user to identify the number of phonemes in the sound unit
- User indicates response with input device
- Analyze response (correct or incorrect?) and performance (re: performance criterion)
- Provide feedback to user
- If advance level performance criterion met, advance level re: phonetic saliency of phonemes, availability of auditory feedback, visual display of graphemes
- If decrease level performance criterion met, decrease level re: phonetic saliency of phonemes, availability of auditory feedback, visual display of graphemes
- Else, continue at current level of play

Similarity to other CCI patent claims:

Description of Task 11:

- Present word
- Prompt user to spell word
- User indicates response with input device
- Analyze response (correct or incorrect?) and performance (re: performance criterion)
- Provide feedback to user
- If advance level performance criterion met, advance level re: phonetic saliency of phonemes, availability of auditory cues, availability of auditory feedback
- If decrease level performance criterion met, decrease level re: phonetic saliency of phonemes, availability of auditory cues, availability of auditory feedback
- Else, continue at current level of play

3. Letter Express

Purpose: (Skills listed subject to revision) Auditory attention, Discrimination, Short-Term Memory; Phonological Segmentation, Identification, Sequencing, Manipulation, Closure, Working Memory; Letter Recognition, Letter naming, Alphabetic order, Sound-Symbol Correspondence, Spoken Language Processing, Left-to-Right Progression, Visual Memory for Orthographic Images, Spelling

Functionality: This task teaches and develops the above listed skills through the following tasks:

Description of Task 1:

- Present letter of the alphabet
- Prompt user to identify the next letter in order
- User indicates response with input device
- Analyze response (correct or incorrect?) and performance (re: performance criterion)
- Provide feedback to user
- If advance level performance criterion met, advance level re: position in alphabet (beginning, middle, ending third), upper vs. lower case display of letter, (may also control visual cueing to facilitate performance)
- If decrease level performance criterion met, decrease level re: position in alphabet (beginning, middle, ending third), upper vs. lower case display of letter, (may also control visual cueing to facilitate performance)
- Else, continue at current level of play

Similarity to other CCI patent claims:

Description of Task 2:

- Present long vowel phoneme
- Prompt user to identify corresponding letter by selecting from choices displayed on the screen
- User indicates response with input device
- Analyze response (correct or incorrect?) and performance (re: performance criterion)
- Provide feedback to user
- If advance level performance criterion met, advance level re: availability of auditory cue, availability of associated keyword, upper vs. lower case display of letter, (may also control visual cueing to facilitate performance)
- If decrease level performance criterion met, decrease level re: availability of auditory cue, availability of associated keyword, upper vs. lower case display of letter, (may also control visual cueing to facilitate performance)
- Else, continue at current level of play

Similarity to other CCI patent claims:

Description of Task 3: Same as Task 2 but using short vowel phonemes

Description of Task 4:

- Present consonant phoneme
- Prompt user to identify corresponding upper case letter by selecting from choices displayed on the screen
- User indicates response with input device
- Analyze response (correct or incorrect?) and performance (re: performance criterion)
- Provide feedback to user
- If advance level performance criterion met, advance level re: availability of auditory cue, availability of associated keyword, phonetic similarity of response choices
- If decrease level performance criterion met, decrease level re: availability of auditory cue, availability of associated keyword, phonetic similarity of response choices
- Else, continue at current level of play

Similarity to other CCI patent claims:

Description of Task 5: Same as Task 4 but using lower case letters instead of upper case letters

Description of Task 6:

- Present phoneme
- Prompt user to identify corresponding letter by typing response on the keyboard or speaking the response (i.e., no response choices provided by program)
- User indicates response with input device
- Analyze response (correct or incorrect?) and performance (re: performance criterion)
- Provide feedback to user
- If advance level performance criterion met, advance level re: perceptual saliency of phoneme, display of printed letter, upper vs. lower case display of printed letter
- If decrease level performance criterion met, decrease level re: perceptual saliency of phoneme, display of printed letter, upper vs. lower case display of printed letter
- Else, continue at current level of play

Similarity to other CCI patent claims:

Description of Task 7:

- Present long vowel phoneme
- Prompt user to identify matching sound
- User indicates response with input device
- Analyze response (correct or incorrect?) and performance (re: performance criterion)
- Provide feedback to user
- If advance level performance criterion met, advance level re: number of response choices, display of printed letter, upper vs. lower case display of printed letter
- If decrease level performance criterion met, decrease level re: number of response choices, display of printed letter, upper vs. lower case display of printed letter
- Else, continue at current level of play

Similarity to other CCI patent claims:

Description of Task 8: Same as Task 7 but using short vowel phonemes

Description of Task 9: Same as Task 7 but using consonant phonemes

Description of Task 10:

- Present word
- Prompt user to identify beginning phoneme
- User indicates response with input device
- Analyze response (correct or incorrect?) and performance (re: performance criterion)
- Provide feedback to user
- If advance level performance criterion met, advance level re: type of word (real vs. nonsense), format of response choices (auditory only, visual + auditory, visual, none), phonetic similarity of response choices
- If decrease level performance criterion met, decrease level re: type of word (real vs. nonsense), format of response choices (auditory only, visual + auditory, visual, none), phonetic similarity of response choices
- Else, continue at current level of play

Similarity to other CCI patent claims:

Description of Task 11: Same as Task 10 but user is required to identify ending phoneme

Description of Task 12: Same as Task 10 but user is required to identify medial phoneme

4. Juggling Letters

Purpose: (Skills listed subject to revision) Auditory Attention, Vigilance, Discrimination, Short Term Memory; Phonological Segmentation, Phonological Identification, Rhyming, Phonological Sequencing; Morphological Segmentation and Identification; Letter Recognition; Sound-Symbol Correspondence; Decoding; Sight Recognition; Visual Orthographic Memory; Reading Fluency; Semantic Word Classification.

Functionality: This task teaches and develops the above listed skills through the following tasks:

Description of Task 1:

- Present target phoneme (consonant)
- Present word
- Prompt user to identify if word begins with target phoneme
- User indicates response with input device
- Analyze response (correct or incorrect?) and performance (re: performance criterion)
- Provide feedback to user
- If advance level performance criterion met, advance level re: presentation format (auditory only, auditory + visual, visual only), availability of visual cue, time allowed for response
- If decrease level performance criterion met, decrease level re: presentation format (auditory only, auditory + visual, visual only), availability of visual cue, time allowed for response
- Else, continue at current level of play

Similarity to other CCI patent claims:

Description of Task 2: Same as Task 1 but target sound is a rime containing a short vowel

Description of Task 3: Same as Task 1 but user is prompted to identify word that ends with target phoneme

Description of Task 4:

- Present semantic category
- Present word
- Prompt user to identify if word belongs to semantic category
- User indicates response with input device
- Analyze response (correct or incorrect?) and performance (re: performance criterion)
- Provide feedback to user
- If advance level performance criterion met, advance level re: presentation format (auditory only, auditory + visual, visual only), availability of visual cue, time allowed for response
- If decrease level performance criterion met, decrease level re: presentation format (auditory only, auditory + visual, visual only), availability of visual cue, time allowed for response
- Else, continue at current level of play

Similarity to other CCI patent claims:

Description of Task 5: Same as Task 4, with more advanced semantic categories

Description of Task 6:

- Present target word (high frequency sight word)
- Present a series of words
- Prompt user to identify when matching word is presented in the series
- User indicates response with input device
- Analyze response (correct or incorrect?) and performance (re: performance criterion)
- Provide feedback to user
- If advance level performance criterion met, advance level re: presentation format for target (auditory + visual, visual only, auditory only), availability of visual cue, presentation format (auditory, visual), time allowed for response
- If decrease level performance criterion met, decrease level re: presentation format for target (auditory + visual, visual only, auditory only), availability of visual cue, presentation format (auditory, visual), time allowed for response
- Else, continue at current level of play

Similarity to other CCI patent claims:

Description of Task 7:

- Present word
- Prompt user to identify a word that begins with the same sound heard at the end of the first word
- User indicates response with input device
- Analyze response (correct or incorrect?) and performance (re: performance criterion)
- Provide feedback to user
- If advance level performance criterion met, advance level re: availability of auditory cues, availability of visual display, availability of visual cues to facilitate performance, time allowed for response
- If decrease level performance criterion met, decrease level re: availability of auditory cues, availability of visual display, availability of visual cues to facilitate performance, time allowed for response
- Else, continue at current level of play

Similarity to other CCI patent claims:

Description of Task 8: Same as Task 7 but user is prompted to identify word with same vowel as first word

Description of Task 9: Same as Task 7 but user is prompted to identify word with same ending morpheme as first word

Description of Task 10: (Same as Task 6 above but target word is a nonsense word)

- Present target word (nonsense word)
- Present a series of words
- Prompt user to identify when matching word is presented in the series
- User indicates response with input device
- Analyze response (correct or incorrect?) and performance (re: performance criterion)
- Provide feedback to user
- If advance level performance criterion met, advance level re: presentation format for target (auditory + visual, visual only, auditory only), availability of visual cue, presentation format (auditory, visual), time allowed for response

Client-Attorney Privilege

- If decrease level performance criterion met, decrease level re: presentation format for target (auditory + visual, visual only, auditory only), availability of visual cue, presentation format (auditory, visual), time allowed for response
- Else, continue at current level of play

Similarity to other CCI patent claims:

Description of Task 11: (Same as Task 6 above but target word contains a word-final plurality morpheme)

- Present target word (real word containing target plurality morpheme)
- Present a series of words
- Prompt user to identify when matching word is presented in the series
- User indicates response with input device
- Analyze response (correct or incorrect?) and performance (re: performance criterion)
- Provide feedback to user
- If advance level performance criterion met, advance level re: presentation format for target (auditory + visual, visual only, auditory only), availability of visual cue, presentation format (auditory, visual), time allowed for response
- If decrease level performance criterion met, decrease level re: presentation format for target (auditory + visual, visual only, auditory only), availability of visual cue, presentation format (auditory, visual), time allowed for response
- Else, continue at current level of play

Similarity to other CCI patent claims:

Description of Task 12: (Same as Task 6 above but target word contains a word-final verb tense morpheme)

- Present target word (real word containing target verb tense morpheme)
- Present a series of words
- Prompt user to identify when matching word is presented in the series
- User indicates response with input device
- Analyze response (correct or incorrect?) and performance (re: performance criterion)
- Provide feedback to user
- If advance level performance criterion met, advance level re: presentation format for target (auditory + visual, visual only, auditory only), availability of visual cue, presentation format (auditory, visual), time allowed for response
- If decrease level performance criterion met, decrease level re: presentation format for target (auditory + visual, visual only, auditory only), availability of visual cue, presentation format (auditory, visual), time allowed for response
- Else, continue at current level of play

Similarity to other CCI patent claims:

Description of Task 13:

- Present printed word or nonsense word
- Present a series of printed words or nonsense words
- Prompt user to identify when word spelled in reverse of target word is presented in the series
- User indicates response with input device
- Analyze response (correct or incorrect?) and performance (re: performance criterion)

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- Provide feedback to user
- If advance level performance criterion met, advance level re: number of letters in word, availability of visual cue, time allowed for response
- If decrease level performance criterion met, decrease level re: number of letters in word, availability of visual cue, time allowed for response
- Else, continue at current level of play

Similarity to other CCI patent claims

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